REMARKS

Applicants respectfully request reconsideration of the rejection of the claims in view of the claim amendments as well as the remarks set forth below. Claims 1-20 remain in the application. Claims 1, 9, and 17 are currently amended. Claims 2-8, 10-16, and 18-20 were previously presented. Claims 21-22 are new.

35 U.S.C. §103

Claims 1, 3, 5-9, 11, 13-17, 19 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Webster et al., in view of Beck et al. Under 35 U.S.C. § 103, the references must expressly or impliedly suggest the claimed invention or the examiner must present a convincing line of reasoning as to why the artisan would have found the claimed invention to be obvious in light of the teachings of the references (MPEP § 706.02(j)). The applicants respectfully traverse the rejection and submit the following arguments for consideration by the examiner. Amended claim 1 recites, inter alia, a "digital radio frequency (RF) transceiver circuit, comprising . . . circuitry that is adapted to select between a transmitter input signal and a receiver input signal . . . a filter circuit including a plurality of filters, each of the plurality of filters being adapted to receive either the transmitter input signal or the receiver input signal, the filter circuit adapted to produce either a filtered transmitter signal or a filtered receiver signal . . . and circuitry that alternatively receives the filtered transmitter signal or the filtered receiver signal and produces a modulated output and a demodulated output" (emphasis added). Support for the amendment may be found on page 6 lines 19-21, page 8 lines 19-29 and in FIG. 2. The claimed "filter circuit including a plurality of filters, each of the plurality of filters being adapted to receive either the transmitter input signal or the receiver input signal, the filter circuit adapted to produce either a filtered transmitter signal or a filtered receiver signal" is an important aspect of claim 1. The background of the invention discusses the desire to reduce the complexity associated with the circuitry for modulating and demodulating signals (page 2 lines 25-28). Further, the use of the "filter circuit including a plurality of filters, each of the plurality of filters being adapted to receive either the transmitter input signal or the receiver input signal, the filter circuit adapted to produce either a filtered transmitter signal or a filtered receiver signal" element of claim 1 conserves power, operates at a lower frequency, and reduces hardware

reduces hardware (page 6 lines 21-27). The applicants propose that neither Webster nor Beck, taken individually or in combination, show or suggest at least the "filter circuit including a plurality of filters, each of the plurality of filters being adapted to receive either the transmitter input signal or the receiver input signal, the filter circuit adapted to produce either a filtered transmitter signal or a filtered receiver signal" element of claim 1.

Webster appears to be directed at a system for receiving and transmitting single carrier signals, including single carrier signals received and transmitted in conjunction with multi-carrier signals. Webster appears to process the transmitted signals and the received signals in separate circuits, including filtering the received signals and transmitted signals in separate filters (page 5, paragraph 0043 and page 7, paragraph 0054). In contrast, claim 1 includes "a filter circuit including a plurality of filters, each of the plurality of filters being adapted to receive either the transmitter input signal or the receiver input signal, the filter circuit adapted to produce either a filtered transmitter signal or a filtered receiver signal". Webster does not appear to show or suggest "a filter circuit including a plurality of filters, each of the plurality of filters being adapted to receive either the transmitter input signal or the receiver input signal, the filter circuit adapted to produce either a filtered transmitter signal or a filtered receiver signal". Therefore, Webster does not show or suggest at least the "filter circuit including a plurality of filters, each of the plurality of filters being adapted to receive either the transmitter input signal or the receiver input signal, the filter circuit adapted to produce either a filtered transmitter signal or a filtered receiver signal" element of claim 1.

Beck appears to be directed at a system, including a transmitter and receiver circuit, for measuring channel response characteristics. The Beck receiver includes a set of individual filters that each filter a separate received signal to produce a series of channel estimates (page 4, paragraph 0041). In contrast, claim 1 includes "a filter circuit including a plurality of filters, each of the plurality of filters being adapted to receive either the transmitter input signal or the receiver input signal, the filter circuit adapted to produce either a filtered transmitter signal or a filtered receiver signal". Beck, like Webster, does not appear to show or suggest "a filter circuit including a plurality of filters, each of the plurality of filters being adapted to receive either the transmitter input signal or the receiver input signal, the filter circuit adapted to produce either a filtered transmitter signal or a filtered receiver signal". Indeed, the Beck transmitter appears to be completely separate from the Beck

from the Beck receiver and does not appear to include or discuss a set of filters at all. Therefore, Beck does not overcome the deficiencies in Webster, nor does Beck show or suggest at least the "filter circuit including a plurality of filters, each of the plurality of filters being adapted to receive either the transmitter input signal or the receiver input signal, the filter circuit adapted to produce either a filtered transmitter signal or a filtered receiver signal" element of claim 1.

As a result, neither Webster, nor Beck, taken alone or together, show or suggest at least the "filter circuit including a plurality of filters, each of the plurality of filters being adapted to receive either the transmitter input signal or the receiver input signal, the filter circuit adapted to produce either a filtered transmitter signal or a filtered receiver signal" element of claim 1. Therefore it is respectfully proposed that the rejection of claim 1 under 35 U.S.C. § 103(a) is overcome in accordance with the above remarks and notice to that effect is earnestly solicited.

Dependent claims 2-8, being dependent on and further limiting independent claim 1, should be allowable for that reason as well as the additional recitations that they contain. Therefore it is respectfully proposed that the rejection of claims 2-8 under 35 U.S.C. § 103(a) is overcome in accordance with the above remarks and notice to that effect is earnestly solicited.

Amended claim 9 has been amended to include limitations similar to the elements of claim 1 and should therefore be allowable for that reason as well as the additional recitations contained therein. Therefore it is respectfully proposed that the rejection of claim 9 under 35 U.S.C. § 103(a) is overcome in accordance with the above remarks and notice to that effect is earnestly solicited.

Dependent claims 10-16, being dependent on and further limiting claim 9, should be allowable for that reason as well as the additional recitations that they contain. Therefore it is respectfully proposed that the rejection of claims 10-16 under 35 U.S.C. § 103(a) is overcome in accordance with the above remarks and notice to that effect is earnestly solicited.

Amended claim 17 has been amended to include limitations similar to the elements of claim 1 and should therefore be allowable for that reason as well as the additional recitations contained therein. Therefore it is respectfully proposed that the rejection of claim 1 under 35 U.S.C. § 103(a) is overcome in accordance with the above remarks and notice to that effect is

notice to that effect is earnestly solicited.

Dependent claims 18-20, being dependent on and further limiting claim 17, should be allowable for that reason as well as the additional recitations that they contain. Therefore it is respectfully proposed that the rejection of claims 18-20 under 35 U.S.C. § 103(a) is overcome in accordance with the above remarks and notice to that effect is earnestly solicited.

Allowable Subject Matter

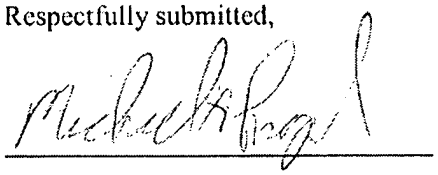
Applicants respectfully note that claims 2, 4, 10, 12, and 18 were deemed to be allowable if rewritten in independent form including the limitations of the base claim and any intervening claims. New claim 21 has been added as an independent claim including the elements of claim 2 along with the elements of original base claim 1. No new matter has been added. Claim 21 should therefore be allowable and notice to that effect is earnestly solicited. Additionally, new claim 22 has been added as an independent claim including the elements of claim 18 along with the elements of original base claim 17. No new matter has been added. Claim 22 should therefore be allowable and notice to that effect is earnestly solicited.

Conclusion

Having fully addressed the Examiner's rejections it is believed that, in view of the preceding remarks, this application stands in condition for allowance. Accordingly then, reconsideration and allowance are respectfully solicited. If, however, the Examiner is of the opinion that such action cannot be taken, the Examiner is invited to contact the applicants' agent at (317) 587-4027, so that a mutually convenient date and time for a telephonic interview may be scheduled.

No additional fee is believed due in regard to the present amendment. However, if an additional fee is due, please charge the fee to Deposit Account 07-0832.

Respectfully submitted,



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